

ORDINANCE NO. 2009-041

DEC 10 2009

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Do not take from

**AN ORDINANCE OF THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, AMENDING ORDINANCE NO. 07-003, AS AMENDED BY ORDINANCE NO. 09-004, PROVIDING A REVISED SCHEDULE OF RATES AND EQUIVALENT RESIDENTIAL IRRIGATION CONNECTION (ERIC) VALUES FOR RECLAIMED WATER SERVICE; PROVIDING FOR REPEAL OF LAWS IN CONFLICT; PROVIDING FOR SEVERABILITY; PROVIDING FOR CAPTIONS; AND PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, the Board of County Commissioners, through its Water Utilities Department, provides potable water, wastewater, and reclaimed water services to approximately 507,000 citizens of Palm Beach County; and

**WHEREAS**, the Water Utilities Department operates as an enterprise fund of the County and therefore must recover the costs of operation through rates, fees, and charges for services rendered; and

**WHEREAS**, Section 153.11, Florida Statutes, requires that such rates, fees and charges shall be so fixed and revised as to provide funds, with other funds available for such purposes, sufficient at all times to pay the cost of maintaining, repairing and operating the system or systems including the reserves for such purposes and for replacements and depreciation and necessary extensions, to pay the principal of and the interest on the water revenue bonds and/or sewer revenue bonds as the same shall become due and the reserves there for, and to provide a margin of safety for making such payments; and

**WHEREAS**, such rates, fees and charges shall be just and equitable and may be based or computed upon the quantity of water consumed and/or upon the number and size of sewer connections or upon the number and kind of plumbing fixtures in use in the premises connected with the sewer system or upon the number or average number of persons residing or working in or otherwise connected with such premises or upon any other factor affecting the use of the facilities furnished or upon any combination of the foregoing factors; and

**WHEREAS**, Water Utilities revenue bond covenants require the County to establish and maintain rates and collect such fees, rentals or other charges for services and facilities and to revise same from time to time whenever necessary, in order to meet debt service and debt service reserve requirements; and

**WHEREAS**, the Water Utilities Department's rate consultants have completed a review of the Department's reclaimed water rates and consumption patterns and have recommended changes to Equivalent Residential Irrigation Connection (ERIC) factors and a reduction in monthly base facility fees for reclaimed water service; and

**WHEREAS**, the Water Utilities Advisory Board has approved the proposed rates, fees, and charges.

**NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, that:**

**SECTION 1. AMENDMENT TO ORDINANCE NO. 07-003, AS AMENDED BY ORDINANCE NO 09-004.**

Section 1 of Ordinance No. 07-003, as amended by Ordinance 09-004, is hereby amended as follows: The revised schedule of rates, fees, and charges shown at Exhibit

"A", which is attached hereto and incorporated herein, is hereby adopted. The rates, fees, and charges set forth in Exhibit "A" shall become effective on December 1, 2009, and will appear on monthly bills rendered on and after January 1, 2010. Revised ERIC values set forth in Exhibit "A" shall be retroactive to May 1, 2009, and reclaimed water customers will be credited for the rate differential resulting from the change in ERIC values retroactive to May 1, 2009.

## **SECTION 2. REPEAL OF LAWS IN CONFLICT.**

All local laws and ordinances in conflict with any provisions of this Ordinance are hereby repealed to the extent of such conflict.

## **SECTION 3. SEVERABILITY.**

If any section, paragraph, sentence, clause, phrase, or word of this Ordinance is for any reason held by the Court to be unconstitutional, inoperative, or void, such holding shall not affect the remainder of this Ordinance.

## **SECTION 4. CAPTIONS.**

The captions, section headings, and section designations used in this Ordinance are for convenience only and shall have no effect on the interpretation of the provisions of this Ordinance.

## **SECTION 5. EFFECTIVE DATE.**

The provisions of this Ordinance shall become effective upon filing with the Department of State.

**APPROVED and ADOPTED** by the Board of County Commissioners of Palm Beach County, Florida, on this the 17th day of November, 2009.

SHARON R. BOCK, CLERK  
AND COMPTROLLER

By: 

Deputy Clerk



PALM BEACH COUNTY, FLORIDA, BY ITS  
BOARD OF COUNTY COMMISSIONERS

By: 

Bud Aaronson, Chair

APPROVED AS TO FORM AND  
LEGAL SUFFICIENCY

By: 

County Attorney

EFFECTIVE DATE: Filed with the Department of State on the 24th day of November, 2009.

**GENERAL**

All fees identified herein may also be subject to a Franchise Fee, with said Franchise Fee to be added to the standard fees listed.

**6.1 ERC AND ERIC EQUIVALENCIES****6.1.1 ERC EQUIVALENCIES**

The number of ERCs for a project is determined using the following factors:

Type of Service	ERC Equivalency Factor
<b>Residential – per meter</b>	
Single-Family	
5/8" X 3/4"	1.00
1"	2.90
1 1/2"	4.50
2"	9.80
Multi-Family per Dwelling Unit for All Meter Sizes	.70
Multi-Family Limited Service	.40
Unmetered Wastewater Only	By Department Analysis
<b>Non-Residential – per meter</b>	
5/8" X 3/4"	1.50
1"	5.80
1-1/2"	10.00
2"	16.25
3"	43.70
4"	66.80
6"	By Department Analysis
Unmetered Wastewater Only	By Department Analysis

**6.1.2 ERIC EQUIVALENCIES**

The number of ERICs for a project is determined using the following factors:

Type of Service	ERIC Equivalency Factor	Projected Average Usage in Gallons per Day
<b>Residential – per meter</b>		
5/8" X 3/4"	1.0	1050
<b>Non-Residential and/or Master Metered Projects – per meter</b>		
5/8" X 3/4"	1.1	1,155
1"	5.7	5,985
1 1/2"	14.3	15,015
2"	30.7	32,235
3"	67.1	70,455
4"	183.6	192,780
6"	392.1	411,705
8"	697.1	731,955
10"	1085.7	1,139,985

## **6.2 PLAN REVIEW AND INSPECTION FEES**

### **6.2.1 CONSTRUCTION PLAN REVIEW FEE**

Payable at the time of plan submission for potable water, reclaimed water and/or wastewater projects

- Residential - \$50.00 per dwelling unit for individual or combined service with a \$750.00 minimum.
- Non-Residential - \$50.00 per ERC based on meter size for individual or combined service with a \$750.00 minimum.

### **6.2.2 CONSTRUCTION INSPECTION FEE**

Four percent (4%) of total estimated cost as provided by the developer and approved by the Department for all potable water, reclaimed water and/or wastewater construction improvements with a \$500.00 minimum for Residential and Non-Residential projects. The inspection fees for "Department required" oversized facilities shall be based on construction cost estimates for the "Development required" facilities, subject to minimum sizes as specified in Chapter 3 of the Uniform Policies and Procedures Manual. This fee is due prior to the pre-construction conference. If the actual construction cost values stated on the "Attachment to the Bill of Sale" exceed the Engineer's cost estimate by \$25,000 or more, then additional construction inspection fees equal to four percent (4%) of the difference between the Engineer's cost estimate and the actual construction values must be paid to the Department prior to any water meters being released.

## **6.3 SERVICE INITIATION FEES**

Service Initiation Fees shall include all applicable Guaranteed Revenue Fees, Connection Fees, Service Installation Fees, Fireline Connection Fees and Franchise Fees.

### **6.3.1 GUARANTEED REVENUE FEES:**

An amount equal to sixty (60) months of Guaranteed Revenue Fees is due at the time of service initiation.

#### **Mandatory Agreement Payment per ERC (equal to 12 months):**

Potable Water	\$172.44
Reclaimed Water	\$0.00
Wastewater	\$242.04
Combined Potable Water & Wastewater	\$414.48

#### **Guaranteed Revenue Monthly Fee per ERC:**

Potable Water	\$14.37
Reclaimed Water	\$0.00
Wastewater	\$20.17
Combined Potable Water & Wastewater	\$34.54



6.3.2 CONNECTION FEES:

TYPE OF SERVICE	POTABLE WATER	WASTEWATER	COMBINED POTABLE WATER & WASTEWATER	RECLAIMED WATER (1)
<b>Residential</b>				
<b>Single Family</b>				
5/8 x 3/4"	\$1,500	\$2,500	\$4,000	\$450
1"	\$4,350	\$7,250	\$11,600	N/A
1 1/2"	\$6,750	\$11,250	\$18,000	N/A
2"	\$14,700	\$24,500	\$39,200	N/A
<b>Multi-Family</b>				
Per dwelling unit	\$1,050	\$1,750	\$2,800	N/A
Limited service	\$600	\$1,000	\$1,600	
<b>Non-Residential</b>				
5/8 x 3/4"	\$2,250	\$3,750	\$6,000	\$675
1"	\$8,700	\$14,500	\$23,200	\$3,600
1 1/2"	\$15,000	\$25,000	\$40,000	\$9,000
2"	\$24,375	\$40,625	\$65,000	\$19,350
3"	\$65,550	\$109,250	\$174,800	\$42,300
4"	\$100,200	\$167,000	\$267,200	\$115,650
6"	Based on usage	Based on usage	Based on usage	\$247,050
8"	Based on usage	Based on usage	Based on usage	\$439,200
10"	Based on usage	Based on usage	Based on usage	\$684,000

(1) A 20% discount applies to these rates for lake delivery service.

6.3.3 SERVICE INSTALLATION FEES

If a Property Owner requests to have a water meter installed, and the site is not ready for meter installation, the work area will be tagged and the reason for not installing the meter shall be indicated. The Department will return a second time for installation at no charge. If the site still is not ready, a trip fee must be paid prior to each subsequent visit to the site.

Potable Water Service Installation Fees

Meter Size	Meter Drop Fee	Service Installation Fee Without Tap	Service Installation Fee With Tap
5/8" X 3/4"	\$280	\$425	\$2,200
1"	\$340	\$560	\$2,600
1 1/2"	\$670	\$1,500	\$3,200
2"	\$1,580	\$2,200	\$4,300
3"*	\$2,100	**	**
4"*	\$3,150	**	**
6"*	\$5,600	**	**

Reclaimed Water Service Installation Fees

Meter Size	Meter Drop Fee	Service Installation Fee Without Tap	Service Installation Fee With Tap
5/8" X 3/4"	\$280	\$425	\$2,200
1"	\$340	\$560	\$2,600
1 1/2"	\$670	\$1,500	\$3,200
2"	\$1,580	\$2,200	\$4,300
3"	\$2,100	**	**
4"	\$3,150	**	**
6"	\$5,600	**	**

\* Installation of compound meters requires an additional \$150 meter drop fee.

\*\* All services 3" and larger are to be provided and installed by the Customer at the Customer's sole expense; however, the Department will assess a Meter Drop Fee and install the meter. A road crossing fee of \$600 per improved travel lane will be assessed in addition to the above fees for service lines 2" and smaller.

Wastewater Service Installation Fees-At Cost

6.3.4 FIRE SPRINKLER SYSTEM CONNECTION FEES

Customer Class	Typical Backflow Prevention Assembly Size	Fire Line Connection Fee
Single Family or Duplex Residential (NFPA Type 13d)	N/A	None
Multi-Family Residential* (NFPA Type 13r)	All Sizes	\$12,400
Non-Residential** (NFPA Type 13r)	4 inches or smaller	\$23,160
Non-Residential** (NFPA Type 13r)	6 inches	\$57,000
Non-Residential** (NFPA Type 13r)	>6 inches	\$90,700

\* For billing purposes, the connection fee applies for each fire line connection to PBCWUD's potable water system.

\*\* For billing purposes, the connection fee is based on the size of the backflow prevention assembly.

## **6.4 ACCOUNT DEPOSITS**

Potable Water Meter Size (inches)	Account Deposit for Individual or Combined Service
5/8" x 3/4"	\$110.00
1"	\$240.00
1-1/2"	\$400.00
2"	\$675.00
3"	\$1,215.00
4"	\$1,890.00
6"	\$4,050.00
8"	\$5,400.00
Wastewater Only	\$110.00
Reclaimed Water Only	\$110.00
5/8" x 3/4" Hydrant Meter	\$270.00
3" Hydrant Meter	\$1,350.00

## **6.5 PRETREATMENT FEES**

### **6.5.1 INDUSTRIAL WASTEWATER DISCHARGE PERMIT FEE**

Significant Industrial Users (SIU) will be billed \$300 on an annual basis for an Industrial Wastewater Discharge Permit Fee. Other Industrial Users requiring an Industrial Wastewater Discharge Permit will be billed \$300 on an annual basis.

### **6.5.2 OGI FEE**

All facilities having an OGI will be billed \$300 per account on an annual basis.

### **6.5.3 MONTHLY INDUSTRIAL WASTE SURCHARGE (IWS)**

An IWS shall be billed to and paid by IUs exceeding discharge standards as calculated below. The IWS shall not exceed the total charge for water and wastewater base facility fees and commodity fees for the month in which the IWS is charged.

#### **IWS CALCULATION**

$$\text{IWS} = 8.34(V)[\$0.45^1 (\text{B.O.D.} - 400) + \$0.18^2 (\text{SS} - 400) + \$1.46^3 (\text{OG} - 100)]$$

Industrial Waste Surcharge in dollars per month

8.34 = Conversion factor of 1 milligram per liter (mg/L) = 8.345 lbs/million gallons

V = Volume in million gallons per month based on metered water

B.O.D. = Biochemical Oxygen Demand - 5 days @ 20° Celsius (C), in mg/L

SS = Suspended Solids of industrial waste in mg/L

OG = Oil and Grease in mg/L

<sup>1</sup> = Capital and operating costs per mg/L per million gallons for B.O.D. greater than 400 mg/L

<sup>2</sup> = Capital and operating costs per mg/L per million gallons of suspended solids greater than 400 mg/L

<sup>3</sup> = Capital and operating costs per mg/L per million gallons of oil and grease greater than 100 mg/L

## 6.6 MONTHLY CUSTOMER FEES

### 6.6.1 RESIDENTIAL

Type of Fee		Potable Water	Wastewater	Combined Potable Water & Wastewater	Reclaimed Water (3)
Monthly Customer Account Fee <sup>1</sup> (Multi-Family Accounts Only)		\$ 2.50	\$ 2.50	\$ 2.50	
Monthly Base Facility Fee: Multi-Family (per dwelling unit)		\$ 7.72	\$ 11.63	\$ 19.35	
Single-Family (per meter)					
5/8" X 3/4"		\$ 10.36	\$11.63	\$ 21.99	
1"		\$ 25.30	\$ 34.30	\$ 59.60	
1 1/2"		\$ 37.85	\$ 52.68	\$ 90.53	
2"		\$ 78.91	\$115.17	\$194.08	
Potable Water & Wastewater Commodity Fee per 1,000 gallons:					
0-4		\$ 1.03	\$ 1.41	\$ 2.44	
5-10		\$ 2.32	\$ 3.31	\$ 5.63	
11-25		\$ 5.82	\$ 0.00	\$ 5.82	
Over 25		\$ 7.23	\$ 0.00	\$ 7.23	
Monthly Fire Line Base Facility Fee per size of backflow device:					
2"		\$ 11.52			
3"		\$ 21.69			
4"		\$ 36.14			
6"		\$ 72.29			
8" and above		\$115.66			



6.6 MONTHLY CUSTOMER FEES

6.6.1 RESIDENTIAL (Continued)

Type of Fee		Potable Water	Wastewater	Combined Potable Water & Wastewater	Reclaimed Water (3)
Monthly Reclaimed Water Base Facility Fee:					
5/8" x 3/4" for Customers who have paid Reclaimed Water Connection Fees					\$ 2.49
5/8" x 3/4" for Customers who have not paid Reclaimed Water Connection Fees					\$ 5.06
Commodity Fee per 1,000 gallons					\$ 0.21
Monthly Un-metered Wastewater Fee assessed per ERC <sup>2</sup>			\$ 22.48		

- 1 Potable Water or Wastewater Customers will not be assessed with additional Customer Account Fees for the addition of Reclaimed Water Service.
- 2 Includes monthly Base Facility, Customer Account Fee, and Commodity Fees.
- 3 A 20% discount applies to these rates for lake delivery service.

6.6.2 NON-RESIDENTIAL

Type of Service	Potable Water	Wastewater	Combined Potable Water & Wastewater	Reclaimed Water (3)
Monthly Base Facility Fee:				
5/8" x 3/4"	\$ 19.48	\$ 24.50	\$ 43.98	
1"	\$ 66.34	\$ 93.73	\$160.07	
1-1/2"	\$ 105.55	\$153.15	\$ 258.70	
2"	\$ 179.06	\$ 274.45	\$ 453.51	
3"	\$ 474.33	\$ 704.49	\$ 1,178.82	
4"	\$ 731.63	\$1,078.17	\$ 1,809.80	
6" and larger based upon projected water usage				
Potable Water and Wastewater Commodity Fee per 1,000 gallons based on meter size:				
5/8" x 3/4"				
0-14,000 gallons	\$ 1.22	\$ 1.65	\$ 2.87	
Over 14,000 gallons	\$ 3.31	\$ 1.65	\$ 4.96	
1"				
0-57,000 gallons	\$ 1.22	\$ 1.65	\$ 2.87	
Over 57,000 gallons	\$ 3.31	\$ 1.65	\$ 4.96	
1-1/2"				
0-94,000 gallons	\$ 1.22	\$ 1.65	\$ 2.87	
Over 94,000 gallons	\$ 3.31	\$ 1.65	\$ 4.96	
2"				
0-138,000 gallons	\$ 1.22	\$ 1.65	\$ 2.87	
Over 138,000 gallons	\$ 3.31	\$ 1.65	\$ 4.96	
3"				
0-557,000 gallons	\$ 1.22	\$ 1.65	\$ 2.87	
Over 557,000 gallons	\$ 3.31	\$ 1.65	\$ 4.96	
4"				
0-675,000 gallons	\$ 1.22	\$ 1.65	\$ 2.87	
Over 675,000 gallons	\$ 3.31	\$ 1.65	\$ 4.96	
6" and above				
All usage	\$ 1.22	\$1.65	\$ 2.87	

6.6.2 NON-RESIDENTIAL (Continued)

Type of Service		Potable Water	Wastewater	Combined Potable Water & Wastewater	Reclaimed Water (3)
Monthly Fire Line Base Facility Fee per size of backflow device:  2" 3" 4" 6" 8" and above		  \$ 11.52 \$ 21.69 \$ 36.14 \$ 72.29 \$ 115.66			
Monthly Reclaimed Water Base Facility Fee - Customers who have not paid Reclaimed Water Connection Fees:  5/8" x 3/4" 1" 1 1/2" 2" 3" 4" 6" 8" 10"  Monthly Reclaimed Water Base Facility Fee - Customers who have paid Reclaimed Water Connection Fees:  5/8" x 3/4" 1" 1 1/2" 2" 3" 4" 6" 8" 10"  Commodity Fee Per 1,000 gallons					  \$5.42 \$28.91 \$72.29 \$155.41 \$339.74 \$928.87 \$1,984.24 \$3,527.54 \$5,493.71    \$2.67 \$14.23 \$35.57 \$76.48 \$167.19 \$457.09 \$976.44 \$1,735.89 \$2,703.43  \$ 0.21
Monthly Un-metered Wastewater Fee assessed per ERC <sup>2</sup>			\$22.48		

- 1 Potable Water or Wastewater Customers will not be assessed with additional Customer Account Fees for the addition of Reclaimed Water service.
- 2 Includes monthly Base Facility, Customer Account Fee and Commodity Fees.
- 3 A 20% discount applies to these rates for lake delivery service.

6.6.3 VILLAGE OF ROYAL PALM BEACH FEES:

Type of Fee	Potable Water	Wastewater	Combined Potable Water & Wastewater
Monthly Customer Account Fee	\$ 0.00	\$ 0.00	\$ 0.00
Monthly Base Facility Fee			
Residential:			
Single Family (per meter)	\$ 13.25	\$ 15.71	\$ 28.96
Multi-Family (per unit)	\$ 9.91	\$ 11.81	\$ 21.72
Commercial:			
5/8" x 3/4"	\$ 17.31	\$ 20.70	\$ 38.01
1"	\$ 62.31	\$ 74.40	\$ 136.71
1-1/2"	\$ 99.33	\$ 118.69	\$ 218.02
2"	\$225.24	\$269.49	\$ 494.73
3"	\$795.01	\$950.76	\$ 1,745.77
4"	\$1,242.52	\$1,469.84	\$ 2,712.36
Fire Lines:			
4"	\$22.00		
6"	\$37.00		
8"	\$56.00		
10"	\$87.00		
Potable Water & Wastewater Commodity Fee per 1,000 gallons:	\$ 1.96	\$ 1.73	\$ 3.69
Conservation Charge: 150% of the gallonage rate per 1,000 gallons of usage for all gallons of usage in excess of the authorized number of gallons per month Customer Class-Authorized Gallons per Month:			
Single Family (per meter)	15,000 gal.		
Multi-Family (per unit)	11,250 gal.		
Commercial (by meter size):			
5/8" or 3/4"	18,000 gal.		
1"	69,000 gal.		
1 1/2"	100,000 gal.		
2"	255,000 gal.		
3"	765,000 gal.		
4"	1,410,000 gal.		

## **6.7 OVERSIZE CREDIT/REIMBURSEMENT RATES**

The maximum allowable credit/reimbursement provided by the Department is the difference between the Department required oversized pipe and the pipe size required by the Property Owner (or minimum pipe sizes identified in Section 3.3.2), if applicable multiplied by the factors listed below:

### **Oversized Potable and Reclaimed Water Mains**

12" and smaller:	\$3.50 per inch diameter per linear foot.
24":	\$4.50 per inch diameter per linear foot.
30":	\$5.00 per inch diameter per linear foot.
36" and larger:	\$5.50 per inch diameter per linear foot.

### **Oversized Wastewater Mains**

12" and smaller:	\$4.00 per inch diameter per linear foot.
18":	\$5.25 per inch diameter per linear foot.
20":	\$5.50 per inch diameter per linear foot.
24":	\$6.00 per inch diameter per linear foot.
30":	\$6.25 per inch diameter per linear foot.
36" and larger:	\$6.50 per inch diameter per linear foot.



## 6.8 MISCELLANEOUS FEES

FEE	AMOUNT
Account Activation (New Account)	\$35.00
Account Reactivation	\$35.00
Delinquent Account Reactivation Calls received between 7:00 a.m. and 6:00 p.m. Monday through Friday excluding County holidays for same-day service	\$35.00
Calls received outside above hours for same-day service	\$60.00
Account Deactivation Calls received between 7:00 a.m. and 6:00 p.m. Monday through Friday excluding County holidays for same-day service	No Charge
Calls received outside above hours for same-day service	\$60.00
Meter Re-read at Customer Request (Correct Original Reading)	\$35.00
Meter Re-read at Customer request (Incorrect Original Reading)	No Charge
Meter Calibration (Flow Test)	
5/8' X 3/4' meter <sup>1</sup>	\$70.00
1" meter <sup>1</sup>	\$100.00
1 1/2" meter <sup>1</sup>	\$150.00
2' meter or larger <sup>1</sup>	At Cost
Relocation of Meter Box and/or Accessories at Customer request	At Cost
Dishonored Check	\$25 or 5% of the face amount of the check, whichever is larger, not to exceed \$200, or the actual cost of collection incurred by the Department, whichever is greater.
Past Due Fee	0.5% of the past due balance if such amount is greater than \$5.00 plus an administrative and general fee of \$5.00.
Downsizing of the Meter 1" downsized to 5/8' x 3/4" <sup>2</sup> All others <sup>2</sup>	\$250.00 At Cost
Upsizing of the Meter	Current Service Initiation Fees for the upsized meter, less a credit for connection fees and guaranteed revenue fees for the original meter.
Meter Replacement	Meter Drop Fee
Administrative Hearing Fee (Refunded if Customer is granted any additional relief)	\$35.00
Accidental Damage to Department Property	At Cost
Initial Backflow Certification	\$40.00
Trip Fee	\$35.00
Unauthorized Connection or Use	Subject to civil proceedings and fines in accordance with Section 812.14, Florida Statutes, or as otherwise provided by law.

<sup>1</sup> No charge if meter found to be inaccurate

<sup>2</sup> The Account Deposit difference will be credited to the Customer's account. Service Initiation Fees paid for the larger meter will not be refunded.

**PALM BEACH COUNTY WATER UTILITIES DEPARTMENT**

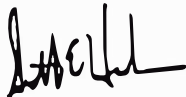
**RECLAIMED WATER SERVICE  
EQUIVALENT RESIDENTIAL IRRIGATION CONNECTIONS  
(ERICS)**

**Proposed Definitional Changes**

**September 2009**

Submitted by:

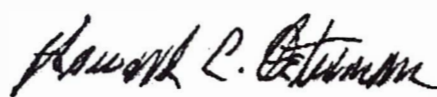
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## **1 | Introduction**

Environmental Financial Group, Inc. (EFG), in association with Howard C. Osterman, Inc. (Osterman), is pleased to provide to the Palm Beach County Water Utilities Department (Department) this report setting forth recommended definitional changes to the Palm Beach County Water Utilities Department ("Department") reclaimed water service user charge system.

The recommendations are based on: 1) a detailed analysis of reclaimed water usage from July 2005 through June 2009, 2) a comparative billing analysis of average customers of various meter sizes, and 3) research into the amount of reclaimed water that should be included in 1.0 ERIC due to changed reclaimed water customer consumption patterns since 2005.

### **Authorization**

This study has been prepared under a Consulting Services Authorization between Palm Beach County and Mathews Consulting, Inc. Environmental Financial Group, Inc. is serving as a sub consultant to Mathews and Howard C. Osterman, Inc. is serving as sub consultant to EFG. EFG and Osterman have both served Palm Beach County Water Utilities as rate, financial and business consultants for several years. Neither firm provides investment banking, accounting, or legal services.

### **Scope and Limitations**

In the course of developing the analysis, the consultant team participated in meetings and interviews with Department staff and conducted an analysis of historical reclaimed water demands. The analyses set forth herein in no way constitute an audit.

## **2 | ERIC Analysis**

The recommendations set forth in this report were prompted by recent changes in reclaimed water usage patterns. Such changes were brought about by the user charge system rate structure, including a larger emphasis on base facility fee revenue. Changes in reclaimed water consumption patterns were also prompted by water restrictions authorized by the South Florida Water Management District. Both of these factors conspired to change the amount of reclaimed water that ought properly be included in an equivalent residential irrigation connection (ERIC). ERIC factors form the basis of the schedule of base facility fees payable by all reclaimed water customers.

Based on the above analyses, the following definitional changes to the reclaimed water service rate structure are recommended.

- Define 1.0 equivalent residential irrigation connection (ERIC) to be equal to 1,050 gallons of usage per day. This represents an increase of 29 percent from the existing 750 gallons per day in the current definition.
- Adopt the schedule of recommended ERIC factors set forth in Schedule 1 below.
- Maintain all other aspects of the reclaimed water rate structure, including the base facility fee, customer account fee and annual indexing.
- Continue to recover the capital expenditures made on behalf of reclaimed water customers through a system of connection fees and rate differentials between those customers who have paid a connection fee and those who did not.
- Continue to monitor reclaimed water usage and consider adjustment of ERIC factors approximately every three years.

**Schedule 1** below presents the calculation of the recommended 1,050 gallons per day level of service defining 1.0 ERIC.

**SCHEDULE 1 | Recommended Equivalent Residential Irrigation Factor (ERIC)**

Item	Estimate
Average Single Family Residential Lot Size, Square Feet [1]	10,890
x Average Percentage of Pervious, Irrigable Area	60%
Net Average Irrigable Area, Square Feet	6,534
Recommended Weekly Lawn Watering of 1 inch [2]	
x Watering depth, feet	0.083
Average Weekly Water Consumption, Cubic Feet	545
x 7.48 Gallons per Cubic Foot	7.48
Average Weekly Water Consumption, Gallons	4,073
÷ 7 Days per Week	
Average Daily Water Consumption, Gallons	582
x 1.8	
Peak Daily Water Consumption, Gallons [3]	1,047
Peak Daily Water Consumption, Gallons (Rounded)	1,050
<b>1.0 Equivalent Irrigation Residential Connection (ERIC), Gallons per Day</b>	<b>1,050</b>

[1] Assumed to be one-quarter acre. One acre is equal to 43,560 square feet  
[2] South Florida Water Management District, *Water Conservation Guidelines*  
[3] Based on Water Utilities peak-to-average consumption data.



**Schedule 2** below sets forth existing and recommended ERIC values for various non-residential meter sizes. The recommended ERICs are based on an across-the-board adjustment using 1,050 gallons per day as the level of service defining 1.0 ERIC. ERIC values are given for customers who have and who have not paid applicable connection fees. The Base Fees shown are those based on indexed rates effective 1 October 2009.

**SCHEDULE 2 | Existing and Recommended ERIC Factors**

Meter Size	Existing 2010 <sup>[1]</sup>		Recommended		%
	ERIC	Base Fee	ERIC	Base Fee	Change
Customers Who Have Paid a Connection Fee					
Residential - 5/8" Meter	1	\$2.49	1	\$2.49	
Non-Residential - 5/8" Meter	1.5	\$3.74	1.1	\$2.67	
1	8.0	\$19.92	5.7	\$14.23	
1.5	20.0	\$49.80	14.3	\$35.57	-29%
2	43.0	\$107.07	30.7	\$76.48	-29%
3	94.0	\$234.06	67.1	\$167.19	-29%
4	257.0	\$639.93	183.6	\$457.09	-29%
6	549.0	\$1,367.01	392.1	\$976.44	-29%
8	976.0	\$2,430.24	697.1	\$1,735.89	-29%
10	1520.0	\$3,784.80	1085.7	\$2,703.43	-29%
Customers Who Have Not Paid a Connection Fee					
R 5/8	1	\$5.06	1	\$5.06	
NR 5/8	1.5	\$7.59	1.1	\$5.42	
1	8.0	\$40.48	5.7	\$28.91	
1.5	20.0	\$101.20	14.3	\$72.29	-29%
2	43.0	\$217.58	30.7	\$155.41	-29%
3	94.0	\$475.64	67.1	\$339.74	-29%
4	257.0	\$1,300.42	183.6	\$928.87	-29%
6	549.0	\$2,777.94	392.1	\$1,984.24	-29%
8	976.0	\$4,938.56	697.1	\$3,527.54	-29%
10	1520.0	\$7,691.20	1085.7	\$5,493.71	-29%

[1] - Based on indexed rates effective 1 October 2009.

Gallons Included in Base Fee	750 gallons per day	1050 gallons per day
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### 3 | Customer Impacts

**Schedule 3** below presents an analysis of impacts to customers using historical average monthly reclaimed water usage. Since the Department's rate structure includes both abase facility fee and a commodity fee, the percentage changes in total monthly bills will vary depending on the meter size and the amount of reclaimed water used. Examples of the percentage changes measured between that previously paid in 2008 and from that paid based on rates indexed on 1 October 2009, are presented in **Schedule 3** below. Since the rate schedule also includes a capital recovery component, example impacts are given both for customers who have and who have not paid applicable connection fees.

#### SCHEDULE 3 | Customer Impacts

Meter Size		Avg Mo Usage, kGal	Average Monthly Bill			Average Percentage Reduction	
			2008	2010[1]	Recommended	from 2008 Bill	from 2010[1] Bill
Customers Who Have Paid a Connection Fee							
Residential - 5/8" Meter	[2]	15	\$4.90	\$5.51	\$5.51	12.4%	0.0%
Non-Residential - 5/8" Meter	[2]	20	\$6.95	\$7.74	\$6.73	-3.2%	-13.1%
1	[2]	60	\$29.60	\$31.48	\$26.09	-11.9%	-17.1%
1.5		158	\$75.28	\$80.38	\$66.89	-11.1%	-16.8%
2		615	\$205.90	\$230.63	\$201.64	-2.1%	-12.6%
3		1,997	\$554.52	\$641.21	\$577.83	4.2%	-9.9%
4		4,842	\$1,417.22	\$1,623.34	\$1,450.05	2.3%	-10.7%
6		11,945	\$3,283.70	\$3,804.09	\$3,433.91	4.6%	-9.7%
8		10,934	\$4,189.44	\$4,599.50	\$3,941.40	-5.9%	-14.3%
10	[2]	15,000	\$6,200.00	\$6,737.20	\$5,712.29	-7.9%	-15.2%
Customers Who Have Not Paid a Connection Fee							
Residential - 5/8" Meter	[2]	15	\$4.90	\$7.95	\$7.95	62.2%	0.0%
Non-Residential - 5/8" Meter	[2]	20	\$6.95	\$11.40	\$9.34	34.4%	-18.0%
1	[2]	60	\$29.60	\$51.00	\$40.03	35.2%	-21.5%
1.5		158	\$75.28	\$129.18	\$101.75	35.2%	-21.2%
2		615	\$205.90	\$335.55	\$276.58	34.3%	-17.6%
3		1,997	\$554.52	\$870.57	\$741.66	33.7%	-14.8%
4		4,842	\$1,417.22	\$2,250.42	\$1,897.96	33.9%	-15.7%
6		11,945	\$3,283.70	\$5,143.65	\$4,390.74	33.7%	-14.6%
8		10,934	\$4,189.44	\$6,980.94	\$5,642.43	34.7%	-19.2%
10	[2]	15,000	\$6,200.00	\$10,446.00	\$8,361.43	34.9%	-20.0%

[1] - Based on indexed rates effective 1 October 2009.

[2] - Synthesized average. No existing customers with this size meter.

Gallons in Base Fee	Monthly Base Fee	\$2.50	\$2.49	\$2.49	\$ per month with Connection Fee
	Monthly Base Fee		\$5.06	\$5.06	\$ per month without Connection Fee
	Commodity Fee	\$0.16	\$0.21	\$0.21	\$ per thousand gallons of metered use

## **APPENDIX A | Reclaimed Water Usage Analysis**

This Appendix A sets forth an analysis of reclaimed water usage and ERIC calculations based on the historical reclaimed water usage of Department customers.

Schedule A-1 presents a calculated ERICs based on historical reclaimed water usage categorized by meter size. The ERIC calculations assume a 750 gallons per day base.

Schedule A-2 presents average monthly usage by meter size for years 2005 through 2009. The Department began keeping billing records in July 2005. The most recent data available is June 2009.

Schedule A-3 presents average daily and monthly wet and dry season reclaimed water consumption, by meter size for years 2005 through 2009.

Schedule A-4 presents average monthly usage by meter size for 2005.

Schedule A-5 presents average monthly usage by meter size for 2006.

Schedule A-6 presents average monthly usage by meter size for 2007.

Schedule A-7 presents average monthly usage by meter size for 2008.

Schedule A-8 presents average monthly usage by meter size for 2009.

Schedule A-9 presents detailed 2005 monthly reclaimed water consumption data for each customer.

Schedule A-10 presents detailed 2006 monthly reclaimed water consumption data for each customer.

Schedule A-11 presents detailed 2007 monthly reclaimed water consumption data for each customer.

Schedule A-12 presents detailed 2008 monthly reclaimed water consumption data for each customer.

Schedule A-13 presents detailed 2009 monthly reclaimed water consumption data for each customer.

SCHEDULE A-1 | 2005-2009 Calculated ERICs Based on Average Usage Patterns

Average Monthly Usage (1000 gal)											
Meter Size	Existing	2005	2006	2007	2008	2009	All	All Years		2007-2009	
								Dry	Wet	Dry	Wet
1	8.0	-	-	-	-	0.7	0.3	-	0.6	-	1.1
1 1/2	20.0	-	-	-	5.2	8.8	7.0	6.3	5.9	6.3	5.9
2	43.0	21.4	114.8	25.9	25.7	30.4	43.6	33.5	55.3	27.2	26.4
3	94.0	83.8	144.0	89.9	79.5	96.9	98.9	99.9	93.6	97.8	70.4
4	257.0	217.0	256.4	205.7	208.3	231.5	223.9	228.4	202.6	229.8	178.4
6	549.0	489.5	1,397.1	546.8	403.1	642.7	695.8	877.8	469.9	575.5	424.3
8	976.0	-	-	-	349.1	622.9	483.9	322.7	537.7	322.7	537.7
10	1,520.0	-	-	-	-	-	-	-	-	-	-
Base (gal/day)		750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0

- Notes:
- [1] "All" column uses average of yearly averages, which weights each year and each month equally, despite differing numbers of records in each.
- [2] Meter sizes 1, 1 1/2 and 8 have very small sample sizes

SCHEDULE A-2 | 2005-2009 Average Monthly Usage, by Meter Size

Average Monthly Usage (1000 gal)												
Meter Size	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1					4	25	2	0	1	0	0	0
1 1/2	691	118	78	112	67	136	0	0	75	75	248	75
2	667	647	649	587	1087	4354	634	601	414	539	560	697
3	2230	2036	2120	2563	2804	2982	2318	2130	1603	2449	2262	2082
4	4396	4612	5428	6433	6256	4623	4493	4894	4559	4378	5644	5106
6	12480	36194	11458	16600	14651	11423	10110	11580	9262	8786	12949	35764
8	2	7	17080	31576	11444	15401	22016	18653	4933	24	403	53
10												

SCHEDULE A-3 | 2005-2009 Wet and Dry Season Usage, by Meter Size

Average Monthly Usage (1000 gal)															
Meter	All Years		2007 - 2009		2005		2006		2007		2008		2009		
Size	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	
1		13		25		1								25	
1 1/2	144	135	144	135							75	133	213	136	
2	762	1264	618	603	803	430	1154	4083	675	510	477	677	702	621	
3	2273	2141	2225	1610	2101	1893	2588	3985	2441	1661	1881	1755	2354	1413	
4	5197	4634	5228	4080	4380	5149	5921	5781	5554	3791	4503	5008	5627	3441	
6	19971	10749	13092	9707	7894	12027	52686	12600	13877	11069	9820	8688	15578	9363	
8	7341	12300	7341	12300							600	10446	14081	14153	
10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

Average Daily Usage (1000 gal)															
Meter	All Years		2007 - 2009		2005		2006		2007		2008		2009		
Size	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	
1	0	0.43	0	0.82	0	0.03	0	0	0	0	0	0	0	0.82	
1 1/2	4.75	4.43	4.75	4.43	0	0	0	0	0	0	2.47	4.36	7.02	4.46	
2	25.12	41.44	20.37	19.77	26.47	14.1	38.04	133.87	22.25	16.72	15.73	22.2	23.14	20.36	
3	74.93	70.2	73.35	52.79	69.26	62.07	85.32	130.66	80.47	54.46	62.01	57.54	776	46.33	
4	171.33	151.93	172.35	133.77	144.4	168.82	195.2	189.54	183.1	124.3	148.45	164.2	185.51	112.82	
6	658.38	352.43	431.6	318.26	260.24	394.33	1736.9	413.11	457.48	362.92	323.74	284.85	513.56	306.98	
8	242.01	403.28	242.01	403.28	0	0	0	0	0	0	19.78	342.49	464.21	464.03	
10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

SCHEDULE A-4 | 2005 Average Monthly Usage, by Meter Size

Average Monthly Usage (1000 gal)							
Meter							
Size	Jul	Aug	Sep	Oct	Nov	Dec	
1	2	-	1	-	-	-	
1 1/2							
2	464	440	426	618	203	803	
3	1,794	2,290	1,683	1,890	1,815	2,101	
4	5,799	5,321	5,281	3,758	5,742	4,380	
6	11,731	15,701	12,762	9,058	10,885	7,894	
8	n/a	n/a	n/a	n/a	n/a	n/a	
10	n/a	n/a	n/a	n/a	n/a	n/a	



SCHEDULE A-5 | 2006 Average Monthly Usage, by Meter Size

Average Monthly Usage (1000 gal)												
Meter Size	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1												
1 1/2												
2	696	463	594	726	3828	22274	319	550	299	736	318	615
3	2634	2585	2624	3097	2845	7213	4529	2314	1237	5384	3232	1742
4	4351	4993	7108	7896	6169	7175	3571	5210	3330	8146	6707	5140
6	15039	136000	11861	16055	14373	13270	8079	12428	6645	16658	18520	119068
8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

SCHEDULE A-6 | 2007 Average Monthly Usage, by Meter Size

Average Monthly Usage (1000 gal)												
Meter Size	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1												
1 1/2												
2	608	1024	818	597	408	510	397	597	320	439	794	614
3	2621	2028	2364	2579	2889	1688	1589	2007	1761	1130	1789	2168
4	4455	3904	5840	8186	6437	3590	5019	4377	3936	1176	4647	4892
6	10501	10062	13912	22838	14834	12901	10990	12934	10844	5225	13520	11113
8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

SCHEDULE A-7 | 2008 Average Monthly Usage, by Meter Size

Average Monthly Usage (1000 gal)												
Meter Size	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1												
1 1/2									75	75	248	75
2	441	477	475	214	382	577	1046	725	541	452	712	738
3	1643	1408	1309	1662	2992	1965	1344	1912	1733	1411	2159	2244
4	4163	2654	3028	4252	7174	5088	3910	4842	5575	4812	5819	5259
6	9090	5597	6358	10790	13455	10988	10026	7835	8094	5654	9809	12308
8	n/a	n/a	n/a	n/a	1146	16648	22016	18653	4933	24	403	53
10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

SCHEDULE A-8 | 2009 Average Monthly Usage, by Meter Size

Average Monthly Usage (1000 gal)						
Meter Size	Jan	Feb	Mar	Apr	May	Jun
1					4	25
1 1/2	691	118	78	112	67	136
2	823	656	700	745	585	621
3	2049	2112	2173	2855	2548	1413
4	4554	6509	5855	5792	5445	3441
6	15083	14752	14024	18139	15894	9363
8	2	7	17080	31576	21741	14153
10	n/a	n/a	n/a	n/a	n/a	n/a

SCHEDULE A-9 | 2005 Monthly Reclaimed Water Consumption, by Customer

Average Monthly Usage (1,000 gal)									
Account #	Account Name	Water Use	Service Address	Jul	Aug	Sep	Oct	Nov	Dec
100020008	ENCINO DRUGS	1	2080 JOG RD RECLAM, BOYNTON BEACH 33424	2	0	1	0	0	0
1000315477	CVS	1	12080 JOG RD RECLAM, BOYNTON BEACH 33424	2	0	1	0	0	0
100040000	ENCLAVE @ WESTCHESTER	2	P PERS GLEN ENCLAVE BLVD BOYNTON BEACH 33437	1188	1122	1344	1138	228	1241
1000127583	PBC ENGINEERING STREET SCAP SECTION	2	10 HAGEN RANCH RD DELRAY BEACH 33446	116	102	102	118	112	70
100020001	G L HOMES	2	13885 JOG RD DELRAY BEACH 33446	381	519	238	1127	467	1800
100032229	PBC ENGINEERING STREET SCAP SECTION	2	13885 JOG RD DELRAY BEACH 33446	130	117	23	37	0	0
1000058024	SAN MARCO HOA	3	12055 TEVERE DR RECLAIMED LAKE WORTH 33467	3	1521	864	986	783	837
1000058025	SAN MARCO HOA	3	7432 ILUGANO DR RECLAIMED LAKE WORTH 33467	804	1823	880	1187	330	1069
1000058027	LAKERIDGE FALLS HOA	3	HAGEN RANCH RD RECLAM BOYNTON BEACH 33433	2537	3728	3872	2899	3124	4077
1000058029	BAYGRASS LAKES HOA INC	3	RECLAIMED PERS GLEN BLVD LOT 10 BOYNTON BEACH 33437	1676	2182	2364	2325	2474	2640
1000178887	VILLA BORGHESE HOA	3	13815 VIA HOA RECLAM DELRAY BEACH 33484	1830	1804	1578	2443	768	1274
100020000	VILLA BORGHESE HOA	3	6729 VIAROMA RECLAM DELRAY BEACH 33484	0	8538	2100	1466	1174	1769
1000077047	VALENCIA LAKES HOA	3	RECLAMED VAL ENC VALKS BLVD BOYNTON BEACH 33437	2860	3084	3316	3472	3427	2717
1000077048	VALENCIA LAKES HOA	3	1134 VALENCIA LAKES BLVD RECL BOYNTON BEACH 33437	670	784	795	745	137	864
1000077051	VALENCIA LAKES HOA	3	11818 VALENCIA LAKES BLVD RECL BOYNTON BEACH 33437	1704	3012	2021	2242	289	1330
1000077052	VALENCIA LAKES HOA	3	11820 CASTELLON CT RECLAIMED BOYNTON BEACH 33437	507	600	653	638	434	452
1000077054	VALENCIA LAKES HOA	3	11790 CASCADIS RLY RECLAIMED BOYNTON BEACH 33437	1072	1948	2068	1591	1711	2024
1000077056	VALENCIA LAKES HOA	3	11700 VALENCIA LAKES BLVD RECL BOYNTON BEACH 33437	1611	1712	1847	1533	787	1567
1000077058	VALENCIA LAKES HOA	3	7713 LAS CRUCES CT RECL BOYNTON BEACH 33437	2066	2383	2284	2129	1144	2167
100078310	AMHERST PARTNERS LEVITT	3	7198 CASCADE ISLES BLVD RECL BOYNTON BEACH 33437	2966	3376	2296	1108	2786	2686
1000078311	AMHERST PARTNERS LEVITT	3	6181 CASCADE ISLES BLVD RECL BOYNTON BEACH 33437	2318	3548	1671	2295	1570	3046
1000078312	AMHERST PARTNERS LEVITT	3	8888 CASCADE ISLES BLVD RECL BOYNTON BEACH 33437	1883	2313	1755	1775	1325	1736
1000078313	AMHERST PARTNERS LEVITT	3	11806 HAGEN RANCH RD RECL BOYNTON BEACH 33437	4163	7122	3818	5418	5149	3734
1000180232	VALENCIA ISLES HOMEOWNERS ASSOC	3	11741 CASCADE ISLES BLVD BOYNTON BEACH 33437	2229	3213	1728	2417	1948	2214
1000138413	VALENCIA ISLES HOA	3	11552 JOG RD BOYNTON BEACH 33437	1460	883	358	934	858	1050
1000138418	VALENCIA ISLES HOA	3	8756 MOLANA DR BOYNTON BEACH 33437	1431	2286	1078	1058	1155	2531
1000138419	VALENCIA ISLES HOMEOWNERS ASSOC INC	3	11211 MADRID WAY RECLAM BOYNTON BEACH 33437	1368	2460	1114	2014	2895	4534
1000145678	VILLA BORGHESE HOA	3	6754 FULCR RECLAM BOYNTON BEACH 33437	2009	2345	1354	1402	2588	3793
1000145680	VILLA BORGHESE HOA	3	13808 VIA RAMPANEL RECLAM DELRAY BEACH 33446-0000	1652	2174	1568	2038	438	850
1000145681	VILLA BORGHESE HOA	3	13906 VIARAPHA RECLAM DELRAY BEACH 33446-0000	2220	2235	1383	2011	228	1864
1000145682	VILLA BORGHESE HOA	3	13855 VIA VINCENZO RECLAM DELRAY BEACH 33446-0000	1575	1885	1435	2136	451	1771
1000145683	VILLA BORGHESE HOA	3	13829 VIALE VENEZIA RECLAM DELRAY BEACH 33446-3713	2673	2788	2153	2228	710	2297
1000145684	VILLA BORGHESE HOA	3	6743 MALTA DR BOYNTON BEACH 33437-0000	1448	1827	828	5186	1881	2280
1000188171	CASCADES RESIDENTS ASSOC	3	8881 CASCADES ISLES BLVD BOYNTON BEACH 33437	2831	3621	3085	2833	3612	3688
1000170615	SEACREST SERVICES INC	3	HAGEN RANCH RD RECLAM BOYNTON BEACH 33433	1577	2079	782	1260	3356	2824
1000178883	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	11158 MALAYSIA CIR RECLAIMED BOYNTON BEACH 33437	1636	2095	862	1478	2031	2236
1000178884	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	11324 OHANU CIR RECLAIMED BOYNTON BEACH 33437	2385	3328	1278	1887	3712	1381
1000178885	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	7256 TONGA CT RECLAIMED BOYNTON BEACH 33437	2107	0	757	1336	3777	2128
1000178886	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	11184 PHILANI WAY RECLAIMED BOYNTON BEACH 33437	1	484	516	0	1901	0
1000178887	MONTEREY ESTATES	3	7450 SERRANO RECLAM TER DELRAY BEACH 33446	3224	182	2934	780	2801	388
1000207285	ROBERT A BENTZ, TRUSTEE	3	13800 S JOG RD DELRAY BEACH 33484	1340	2880	1802	2511	1769	2654
1000207286	VALENCIA LAKES HOA	3	7865 STANFORD RECL BOYNTON BEACH 33437	1136	2018	2216	1720	3051	2480
1000207287	WESTCHESTER GOLF & CLUB	4	11769 JOG RD RECLAIMED BOYNTON BEACH 33437	1882	2081	1484	1680	8256	751
1000207288	POLO TRACE	4	6900 HAGEN RANCH RD DELRAY BEACH 33446-3877	4923	5568	5421	5487	5268	7526
1000218035	SOUTHERN GOLF PARTNERS, LLP	4	13135 HAGEN RANCH RD DELRAY BEACH 33446-3358	13587	9410	10187	10874	9431	7365
1000218036	TRULU RESERVE OF PBC HOA INC	4	11811 HAGEN RANCH RD BOYNTON BEACH 33437	5580	5188	5733	5685	4148	3488
1000226788	LEXINGTON CLUB COMMUNITY	4	7788 LEXINGTON CLUB BLVD DELRAY BEACH 33446	2842	4361	3802	3484	6312	8440
1000323433	TOLSA HOMES INC DBA ENGLE HOMES	4	8660 LINTON BLVD RECLAM DELRAY BEACH 33446	30	30	30	30	1550	550
1000323434	CASA BELLA POA	4	8085 LINTON BLVD RECLAM DELRAY BEACH 33446	33401	14814	10320	12277	12187	537
1000058028	WESTCHESTER GOLF & CLUB	6	12240 JOG RD RECLAIMED BOYNTON BEACH 33437	18221	17188	12878	14435	4551	6786
1000058029	INDIAN SPRINGS COUNTRY CLUB	6	11501 EL CLAR RANCH RECLAIMED RD BOYNTON BEACH 33437-1445	7842	22045	34802	6542	24464	6282
1000221082	GLENEAGLES COUNTRY CLUB	6	7667 VICTORY LN DELRAY BEACH 33446-3155	9456	12232	8016	8744	8008	8830
1000221083	GLENEAGLES COUNTRY CLUB	6	7667 VICTORY LN DELRAY BEACH 33446-3155	7120	7178	5113	5852	4232	4389
10002454183	AWALON ESTATES OF BOYNTON BEACH	8	12151 HAGEN RANCH RD RECLAM BOYNTON BEACH 33437	8851	14731	10331	2896	8724	14551
1000279588	VALENCIA FALLS HOA	8	13886 HAGEN RANCH RD DELRAY BEACH 33446	18026	22517	7095	11508	12448	17854
1000322838	GL HOMES OF BOYNTON BEACH ASSOC OX LTD	8	13887 S JOG RD RECLAM DELRAY BEACH 33446	0	0	0	0	0	0
1000328185	VALENCIA PALMS POA	8	13687 S JOG RD RECLAM DELRAY BEACH 33446	0	0	0	0	0	0
1000385427	VALENCIA PONTE MASTER ASSOC INC	8	10827 ROCK SPRINGS TER BOYNTON BEACH 33446	0	0	0	0	0	0

**SCHEDULE A-10 | 2006 Monthly Reclaimed Water Consumption, by Customer**

[illegible]

**SCHEDULE A-11 | 2007 Monthly Reclaimed Water Consumption, by Customer**

[illegible]





# SCHEDULE A-13 | 2009 Monthly Reclaimed Water Consumption, by Customer

Average Monthly Usage (1000 gal)		Account Name		Service Location		Jan	Feb	Mar	Apr	May	Jun	Total
1000315477	CYS	1	7390 JOG RD RECLAIM, BOYNTON BEACH 33434									
1000414251	REJOYNT TEMPLE @ SHARPS SHALOM CBA-GES	1	9005 HAGEN RANCH RD, BOYNTON BEACH 33437-7999									
1000423054	PRC FIRE RESQUE, C/O PRC FINANCE DEPT	1	8870 FLAVOR FCT RD, BOYNTON BEACH 33437		691	118	78	112	4	25	29	1202
1000058030	ENCLAVE @ WESTCHESTER	2	PIPER GLEN-ENCLAVE BLVD, BOYNTON BEACH 33437		799	718	750	828	758	593	4456	
1000272853	PRC ENGINEERING STREETSCAPE SECTION	2	10 HAGEN RANCH RD, DELRAY BEACH 33446		21	50	25	34	19	37	181	
1000000000	PRC ENGINEERING STREETSCAPE SECTION	2	530 HAGEN RANCH RD RECLAIMED, DELRAY BEACH 33446		16	18	13	16	15	86		
1000080714	BOYNTON BEACH MEDICAL CTR, LLC	2	10151 ENTERPRISE CTR BLVD RECLAIM, BOYNTON BEACH 33437		327	306	332	346	335	390	2127	
1000009919	KARL CORPORATION	2	7325 BOYNTON BEACH BLVD, BOYNTON BEACH 33437-0000		259	205	491	542	739	183	2709	
1000414921	BRUCE ETRUMP INC	2	12405 HAGEN RANCH RD, BOYNTON BEACH 33437-0000		1379	116	854	1190	6	1176	4917	
1000415254	PALM BEACH COUNTY	2	14350 HAGEN RANCH RD RECLAIM, DELRAY BEACH 33446		1851	1787	1815	1854	1785	1507	12963	
1000429642	WOOD, BRIGHT JOG LLC	2	708-17 B JOG RD, BOYNTON BEACH 33437-0000		1065	1715	1317	162	980	41	6940	
1000058024	SAN MARCO HOA	3	12555 EVORE DR RECLAIMED, LAKE WORTH 33467		1163	1225	1491	1475	1358	1231	7943	
1000058025	SAN MARCO HOA	3	7432 LUGANO DR RECLAIMED, LAKE WORTH 33467		1574	1605	1640	1385	1878	1079	9121	
1000058027	LAKE IDE FALLS HOA	3	HAGEN RANCH RD RECLAIM, BOYNTON BEACH 33437				3715	4475	4195	1289	15621	
1000058029	SHARPS LAKES HOA INC	3	RECLAIMED PIPERS GLEN BLVD, LOT 10, BOYNTON BEACH 33437		2839	1860	2686	2634	3274	2856	16271	
1000058031	VILLA BORGHESE HOA	3	13815 VIA ROMA RECLAIM, DELRAY BEACH 33446		1583	1652	1557	1657	1338	1652	21432	
1000058034	VILLA BORGHESE HOA	3	6720 VIA ROMA RECLAIM, DELRAY BEACH 33446		3960	4451	3981	5153	4238	0	21821	
1000077047	VALENCIA LAKES HOA	3	RECLAIMED OF VALENCIA LAKES BLVD, BOYNTON BEACH 33437		4138	3281	4074	4075	3252	1546	20750	
1000077048	VALENCIA LAKES HOA	3	1134 VALENCIA LAKES BLVD RECL, BOYNTON BEACH 33437		1028	844	836	836	732	862	4739	
1000077049	VALENCIA LAKES HOA	3	11800 CASTLE ON CT RECLAIMED, BOYNTON BEACH 33437		2440	2426	3297	2709	2421	1876	15408	
1000077051	VALENCIA LAKES HOA	3	11800 CASTLE ON CT RECLAIMED, BOYNTON BEACH 33437		246	0	536	1093	1234	412	3580	
1000077052	VALENCIA LAKES HOA	3	11750 CANVAS BLVD RECLAIMED, BOYNTON BEACH 33437		1432	1465	1551	1497	1873	753	9527	
1000077056	VALENCIA LAKES HOA	3	11750 CANVAS BLVD RECL, BOYNTON BEACH 33437		1190	1254	1155	1276	1528	497	8510	
1000077058	VALENCIA LAKES HOA	3	7713 LAS CRUCES CT RECL, BOYNTON BEACH 33437		824	1091	781	1089	1124	422	5340	
1000078310	AMHERST PARTNERS/LEVITT	3	7194 CASCADE ISLES BLVD RECL, BOYNTON BEACH 33437		3851	4312	3862	3586	4464	2654	24852	
1000078311	AMHERST PARTNERS/LEVITT	3	6191 CASCADE ISLES BLVD RECL, BOYNTON BEACH 33437		3408	3576	3119	7509	3618	2059	22670	
1000078312	AMHERST PARTNERS/LEVITT	3	6993 CASCADE ISLES BLVD RECL, BOYNTON BEACH 33437		2244	2094	1786	3483	2611	1348	15548	
1000078313	AMHERST PARTNERS/LEVITT	3	11600 HAGEN RANCH RD RECL, BOYNTON BEACH 33437		5722	6241	5735	10146	6199	3630	37573	
1000078315	AMHERST PARTNERS/LEVITT	3	11741 CASCADE ISLES BLVD, BOYNTON BEACH 33437		3234	3434	2844	3039	2891	1540	18172	
1000100022	VALENCIA ISLES HOMEOWNERS ASSOC	3	11533 JOG RD, BOYNTON BEACH 33437-0000		821	728	776	860	863	445	4851	
1000100043	VALENCIA ISLES HOA	3	6756 HOLKAR DR, BOYNTON BEACH 33437		3211	1571	1469	1599	1873	499	8081	
1000100048	VALENCIA ISLES HOA	3	11211 MANDALAY WAY RECLAIM, BOYNTON BEACH 33437		1675	2504	2382	2711	2571	1172	13175	
1000100049	VALENCIA ISLES HOMEOWNERS ASSOC INC	3	6754 FLORIDA RECLAIM, BOYNTON BEACH 33437		1296	1610	1813	2112	1902	530	9062	
1000100057	VIA BORGHESE HOA	3	13802 VIA RAPHAEL RECLAIM, DELRAY BEACH 33446-0000		3013	3071	2517	3482	2171	1424	16678	
1000100058	VIA BORGHESE HOA	3	13908 VIA RAPHAEL RECLAIM, DELRAY BEACH 33446-0000		2832	2538	2456	3517	2096	1453	15588	
1000100059	VIA BORGHESE HOA	3	13855 VIA VINC RECLAIM, DELRAY BEACH 33446-0000		3510	3856	3081	4642	3628	1787	20522	
1000100062	VIA BORGHESE HOA	3	13859 VIA VINC RECLAIM, DELRAY BEACH 33446-0000		2947	3051	2678	3548	2843	1573	15988	
1000100063	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	6713 MANDALAY, BOYNTON BEACH 33437-0000		802	1281	1337	1572	1384	798	7195	
1000100064	CASCADES RESIDENTS ASSOC	3	6801 CASCADE ISLES BLVD, BOYNTON BEACH 33437		2174	2389	1674	2333	2581	1322	12671	
1000100065	SEACREST SERVICES INC	3	HAGEN RANCH RD RECLAIM, BOYNTON BEACH 33437		2208	2445	3120	3777	4064	291	79153	
1000100066	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	11156 MALAYSIAN RECLAIMED, BOYNTON BEACH 33437		1187	1828	1581	1822	1813	843	8545	
1000100067	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	11374 CHANU CTR RECLAIMED, BOYNTON BEACH 33437		1055	2072	1735	2568	2164	108	11207	
1000100068	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	12708 TONGA CTR RECLAIMED, BOYNTON BEACH 33437		1333	1768	1718	2145	2035	958	10335	
1000100069	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	7341 LAMAR LAKES RECLAIMED, BOYNTON BEACH 33437		1189	1874	1725	1982	2085	781	9396	
1000100070	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	11184 MALAYSIAN RECLAIMED, BOYNTON BEACH 33437		1602	1848	1547	2030	2148	1017	11342	
1000100071	VALENCIA ISLES HOMEOWNERS ASSOCIATION	3	7450 SEAPRIMORE CLAIM TER, DELRAY BEACH 33446		2542	2091	2292	2967	2899	1738	14522	
1000100072	VALENCIA LAKES HOA	3	7805 TANZANIA RECL, BOYNTON BEACH 33437		1722	1784	1881	1613	1890	1613	10727	
1000100073	DRIPS OF SAN MARCO	3	13800 S JOG RD, DELRAY BEACH 33446		2374	1880	1880	1818	2102	1817	11716	
1000100074	VALENCIA LAKES HOA C/O PRIME MANAGEMENT	3	11471 CORAZON CT, BOYNTON BEACH 33437-4081		1735	1598	2012	1797	2121	108	10808	
1000100075	VALENCIA LAKES HOA C/O PRIME MANAGEMENT	3	11505 PAMPLONA BLVD, BOYNTON BEACH 33437-4075		824	839	905	1164	1089	744	5808	
1000100076	SCHOOL DISTRICT OF PALM BEACH COUNTY	3	10885 HAGEN RANCH RD RECLAIM, BOYNTON BEACH 33437-3119		1399	456	536	702	1013	715	4784	
1000100077	THURST	3	6076 HAGEN RANCH RD RECLAIM, BOYNTON BEACH 33437						6458	2852	8651	
1000100078	PALM ISLES WEST ASSOCIATION	3	6807 HAGEN VIEW DR, BOYNTON BEACH 33437-0000		802	18	1100	1091	2123	1751	8875	
1000100079	PALM ISLES WEST ASSOCIATION	3	9851 PRESIDENT VIEW DR, BOYNTON BEACH 33437-0000		788	1277	2140	2335	2193	1588	10539	
1000100080	CYPRESS LAKE MASTER HOMEOWNERS ASSOCIAT	3	3753 CYPRESS TRAIL RECLAIM, WEST PALM BEACH 33410					1684	1289	2280	8233	
1000100081	WESTCHESTER GOLF & CLUB	4	11786 JOG RD RECLAIMED, BOYNTON BEACH 33437		1345	1384	1447	1583	1549	172	7431	
1000100082	PALO TRACE	4	0000 HAGEN RANCH RD, DELRAY BEACH 33446-3617		4868	6316	5775	8851	5464	3304	32578	
1000100083	SOUTHERN GOLF PARTNERS, LLP	4	13135 HAGEN RANCH RD, DELRAY BEACH 33446-3258		8177	13828	11241	15778	14391	5279	83784	
1000100084	TRAIL RESERVE OF PRC HOA INC	4	11011 HAGEN RANCH RD, BOYNTON BEACH 33437		5847	5322	7835	8389	1538	1917	38127	
1000100085	LUXURY CLUB COMMUNITY	4	7799 LUXURY CLUB BLVD, DELRAY BEACH 33446		8357	8085	15550	5540	5648	1510	29370	
1000100086	CASA BELLA HOA	4	8005 LINTON BLVD RECLAIM, DELRAY BEACH 33446		5484	5196	5847	8046	5985	3207	33765	
1000100087	BRIEL LA COMMUNITY ASSOC INC	4	10278 HAGEN RANCH RD RECLAIMED, BOYNTON BEACH 33437		1590	1952	1644	1500	1907	2165	10348	
1000100088	TRAIL LAKES OF PALM BEACH HOMEOWNERS AS	4	10185 TRAIL LAKES BLVD RECLAIM, BOYNTON BEACH 33437-0000		6255	5740	6880	6413	3825	3241	33884	
1000100089	PONTE VECCHIO HOMEOWNERS INC	4	7058 CANTAMAR DR, BOYNTON BEACH 33437-0000		1048	12177	8570	2008	6740	5843	25384	
1000100090	GLENEAGLES CO-OP TRAIL CLUB	4	15481 S IRATHEAN DR RECLAIM, DELRAY BEACH 33446-2536						8475	0	8475	
1000100091	WESTCHESTER GOLF & CLUB	6	12240 JOG RD RECLAIMED, BOYNTON BEACH 33437		13122	14658	11342	18876	13873	1462	81391	
1000100092	HOLLY SPRING COUNTRY CLUB	6	11501 EL CLAIR RANCH RECLAIMED, BOYNTON BEACH 33437-7445		13896	16365	15216	20450	16383	12251	84982	
1000100093	HOLLY SPRING COUNTRY CLUB	6	11411 EL CLAIR RANCH RD RECL, BOYNTON BEACH 33437		12700	16910	14923	20242	15880	16178	89723	
1000100094	GLENEAGLES COUNTRY CLUB	6	7887 VICTORY LN, DELRAY BEACH 33446-3158		737	10902	7087	15041	8235	9234	58472	
1000100095	GLENEAGLES COUNTRY CLUB	6	7887 VICTORY LN, DELRAY BEACH 33446-3158		231	1	8348	14704	10408	5879	37350	
1000100096	ANALOGUES STATES OF BOYNTON BEACH	6	12151 HAGEN RANCH RD RECLAIM, BOYNTON BEACH 33437		11941	10588	11888	10559	10220	6788	62864	
1000100097	VALENCIA FALLS HOA	6	13086 HAGEN RANCH RD, DELRAY BEACH 33446		17138	16872	18802	19814	18215	8274	91573	
1000100098	VALENCIA PALM POA	6	13887 S JOG RD RECLAIM, DELRAY BEACH 33446		13572	14017	14830	14631	15754	7463	88007	
1000100099	VALENCIA PALM POA PARTNER ASSOC INC	6	10821 ROCK SPRINGS TER, BOYNTON BEACH 33446		11318	14718	16895	17882	18577	15624	102707	
1000100100	UNITED CMC ORGANIZATION	6	0000 NORTH HARTON ST, WEST PALM BEACH 33411-0000		41822	15387	18473	20841	28480	25855	154445	
1000100101	GREYSTONE AT BOYNTON BEACH HOA INC	6	10775 BUTTERNUT HICKORY LN, BOYNTON BEACH 33437-0000		4248	10323	8472	9164	8963	7922	48653	
1000100102	ABERDEEN PROPER TY OWNERS ASSOC INC C/O C	6	8477 ABERDEEN DRIVE RECLAIM, BOYNTON BEACH 33437-2917		25585	20753	23478	25558	26534	0	149717	
1000100103	ADISON RESERVE CC	6	7350 LINTON BLVD RECLAIM, DELRAY BEACH 33446				17080	31578	21741	14153	84558	

STATE OF FLORIDA, COUNTY OF PALM BEACH  
I, SHARON R. BOCK, Clerk and Comptroller  
certify this to be a true and correct copy of the original  
filed in my office on November 17, 2009

dated at West Palm Beach, FL on 11/17/09  
By: Diane Brown  
Deputy Clerk

